

DUAL INDUCTION
LL3/GR LOG

Company LAYNE ENERGY OPERATING, LLC		Company LAYNE ENERGY OPERATING, LLC	
Well	SHULTZ # 4M-2	Well	SHULTZ # 4M-2
Field		Field	
County	MONTGOMERY	County	MONTGOMERY
State	KANSAS	State	KANSAS
Location: NW SW NW NW 771' FNL & 309' FWL SEC 2 TWP 31S RGE 14E		API # : 15-125-32056-0000 CDLN	
Permanent Datum	GL	Elevation	916'
Log Measured From	GL		
Drilling Measured From	GL		
Date	4-27-2011		
Run Number	ONE		
Depth Driller	1286'		
Depth Logger	1286'		
Bottom Logged Interval	1284'		
Top Log Interval	SURFACE		
Casing Driller	8.625" @ 21'		
Casing Logger	8.625" @ 21'		
Bit Size	6.75"		
Type Fluid in Hole	WATER		
Density / Viscosity			
pH / Fluid Loss			
Source of Sample			
Rm @ Meas. Temp			
Rmt @ Meas. Temp			
Rmc @ Meas. Temp			
Source of Rmt / Rmc			
Rm @ BHT			
Time Circulation Stopped			
Time Logger on Bottom			
Maximum Recorded Temperature			
Equipment Number	OW1		
Location	HOMINY, OK		
Recorded By	SHELDON TYLER	SPENCER TYLER	
Witnessed By	MR. TAYLOR		

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

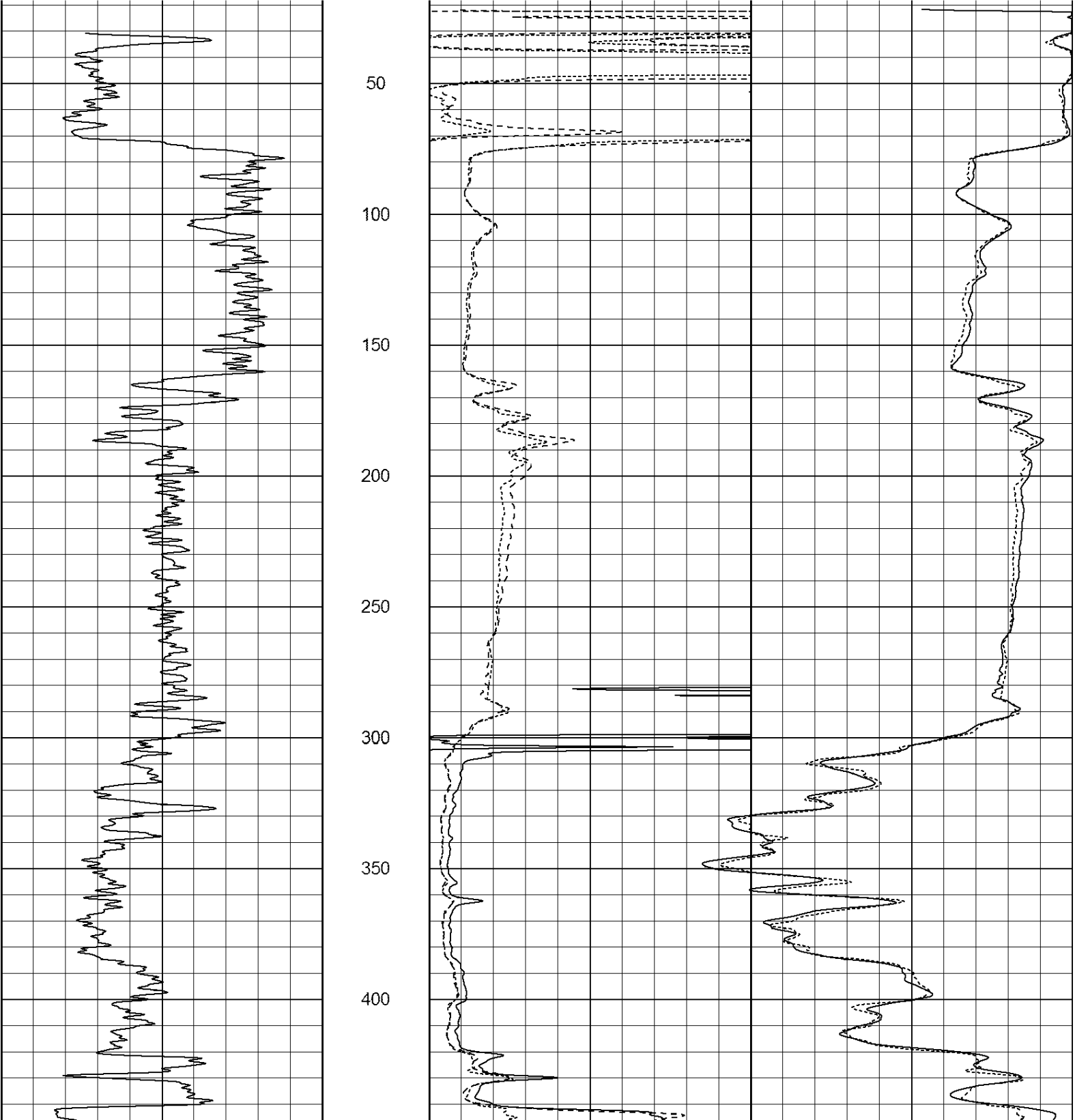
OW1-7767

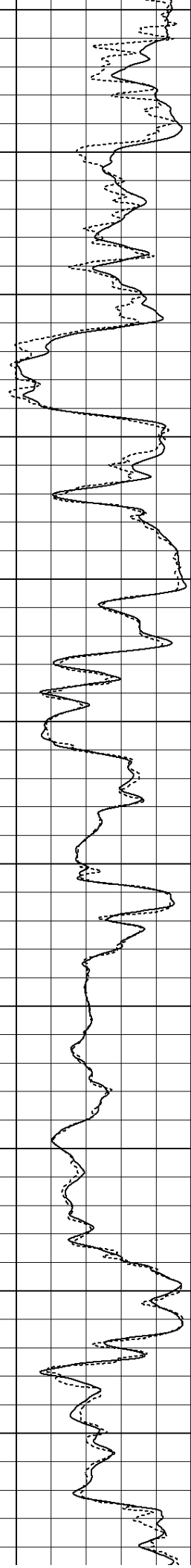
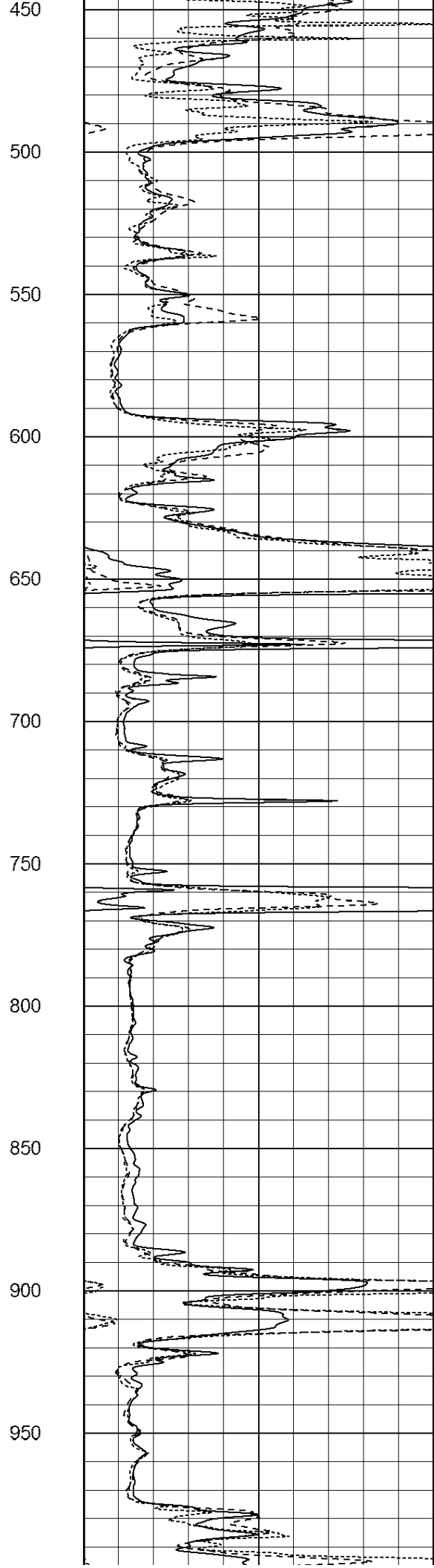
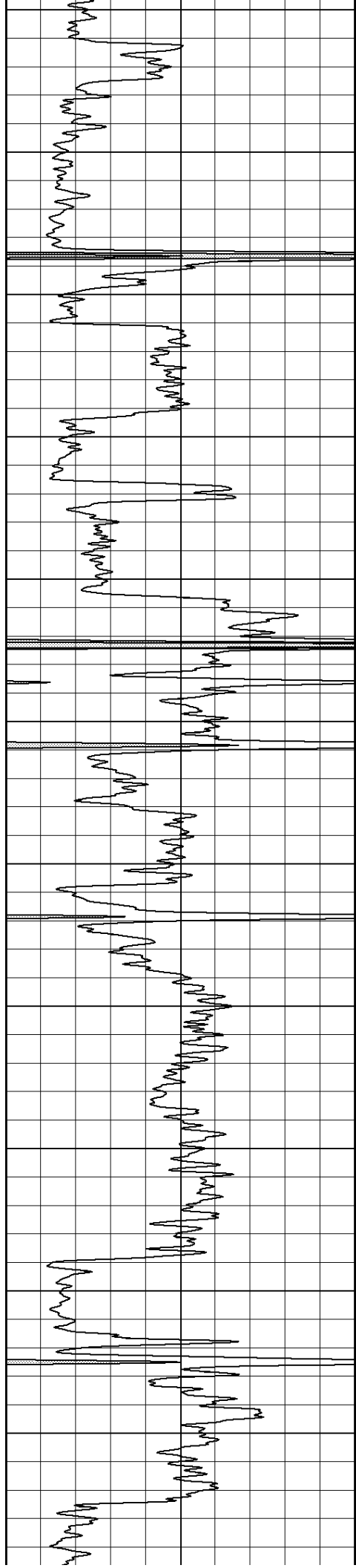


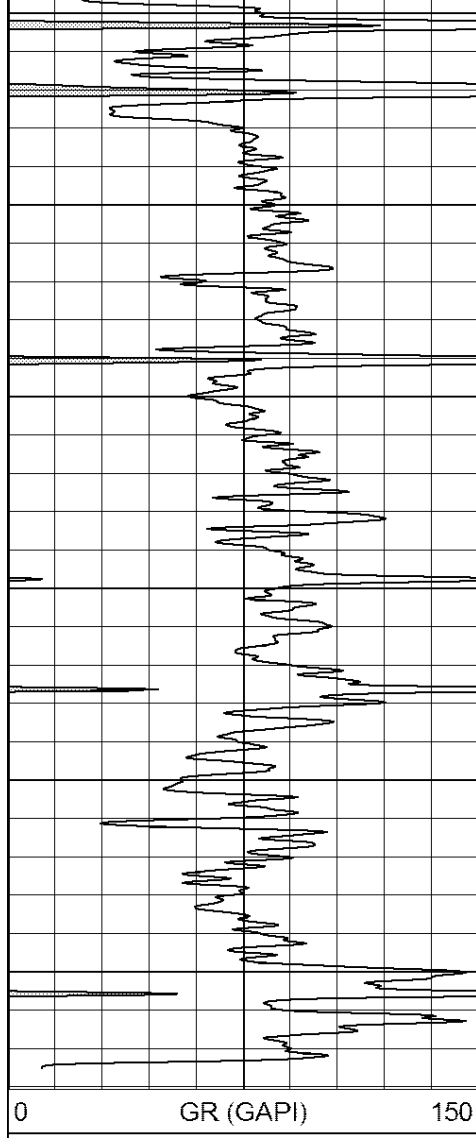
2" DIL SECTION

Database File: ow1-7767 layne energy.db
Dataset Pathname: DIL/pass2.2
Presentation Format: dil2airn
Dataset Creation: Wed Apr 27 17:48:17 2011 by Calc Open-Cased 100827
Charted by: Depth in Feet scaled 1:600

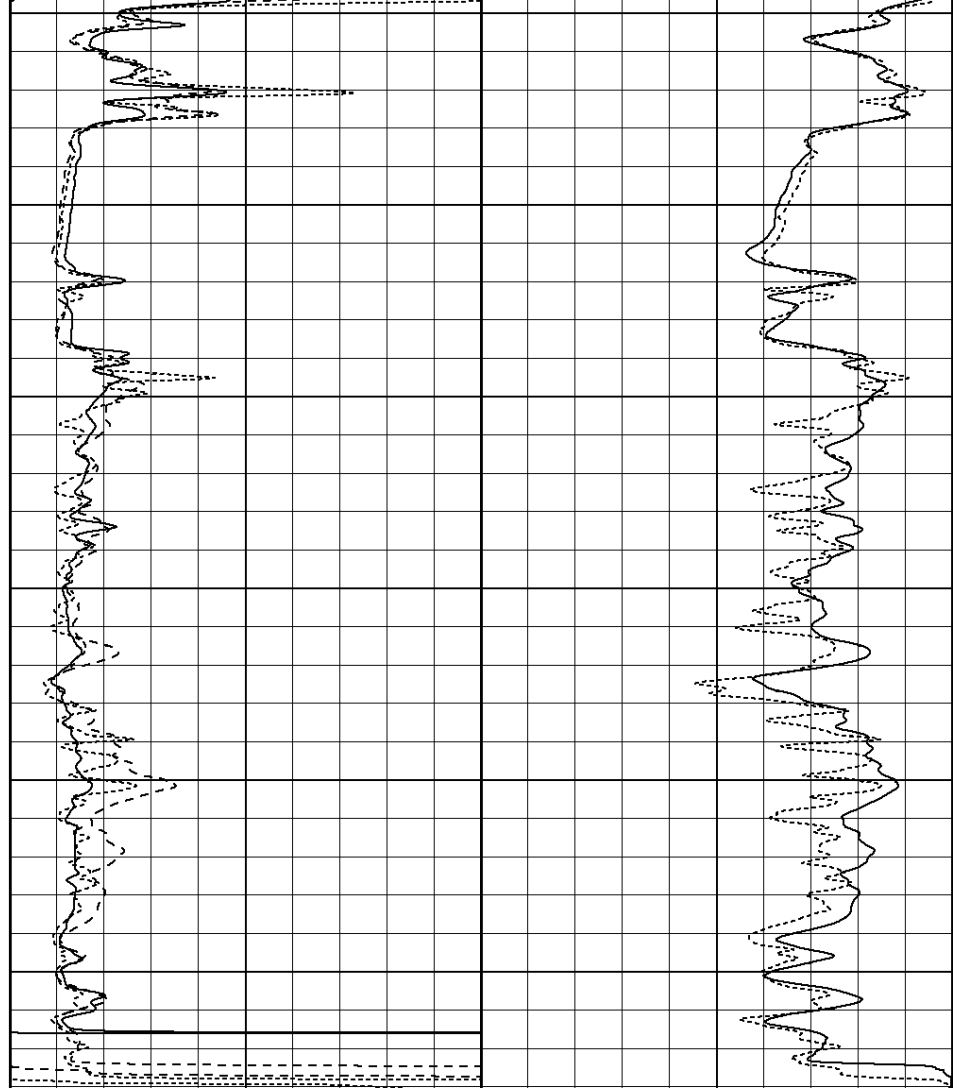
0	GR (GAPI)	150	0	RLL3 (Ohm-m)	50
			0	RILM (Ohm-m)	50
			0	RILD (Ohm-m)	50
			1000	CILD (mmho/m)	0
			1000	CILM (mmho/m)	0







1000
1050
1100
1150
1200
1250



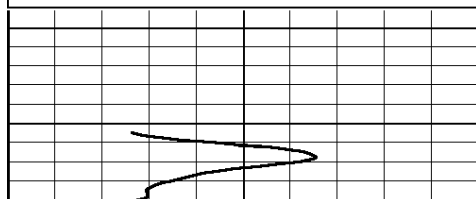
0	RLL3 (Ohm-m)	50
0	RILM (Ohm-m)	50
0	RILD (Ohm-m)	50
1000	CILD (mmho/m)	0
1000	CILM (mmho/m)	0



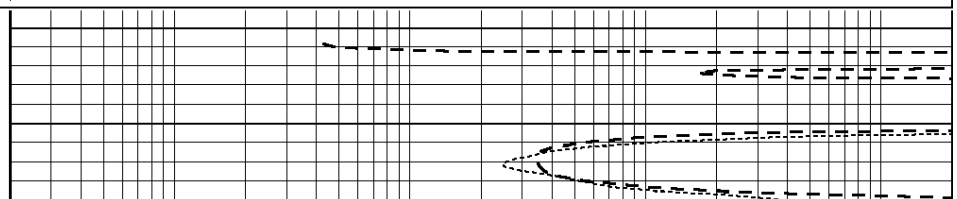
5" DIL SECTION

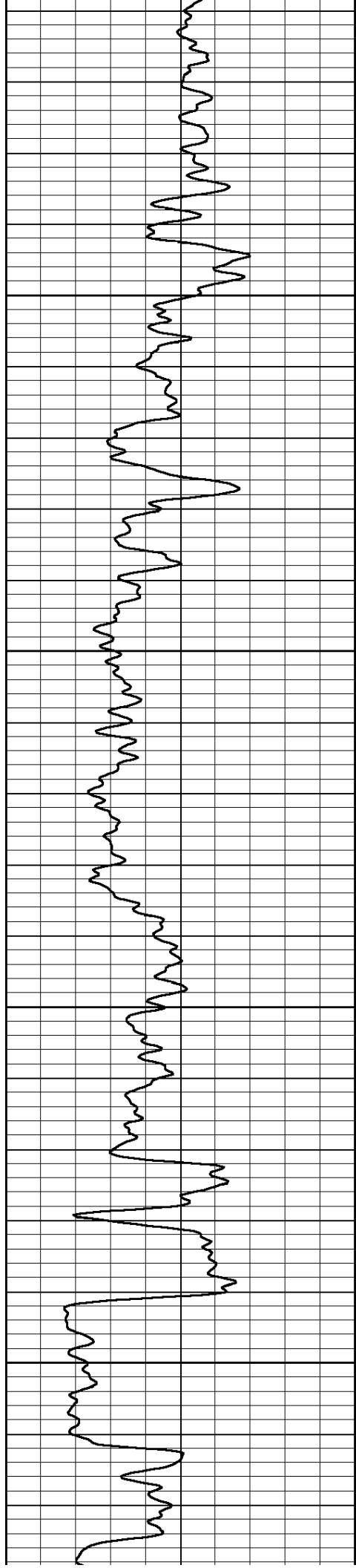
Database File: ow1-7767 layne energy.db
 Dataset Pathname: DIL/pass2.3
 Presentation Format: dil5air
 Dataset Creation: Wed Apr 27 17:48:31 2011 by Calc Open-Cased 100827
 Charted by: Depth in Feet scaled 1:240

0 GR (GAPI) 150



0.2	RLL3 (Ohm-m)	2000
0.2	RILD (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000



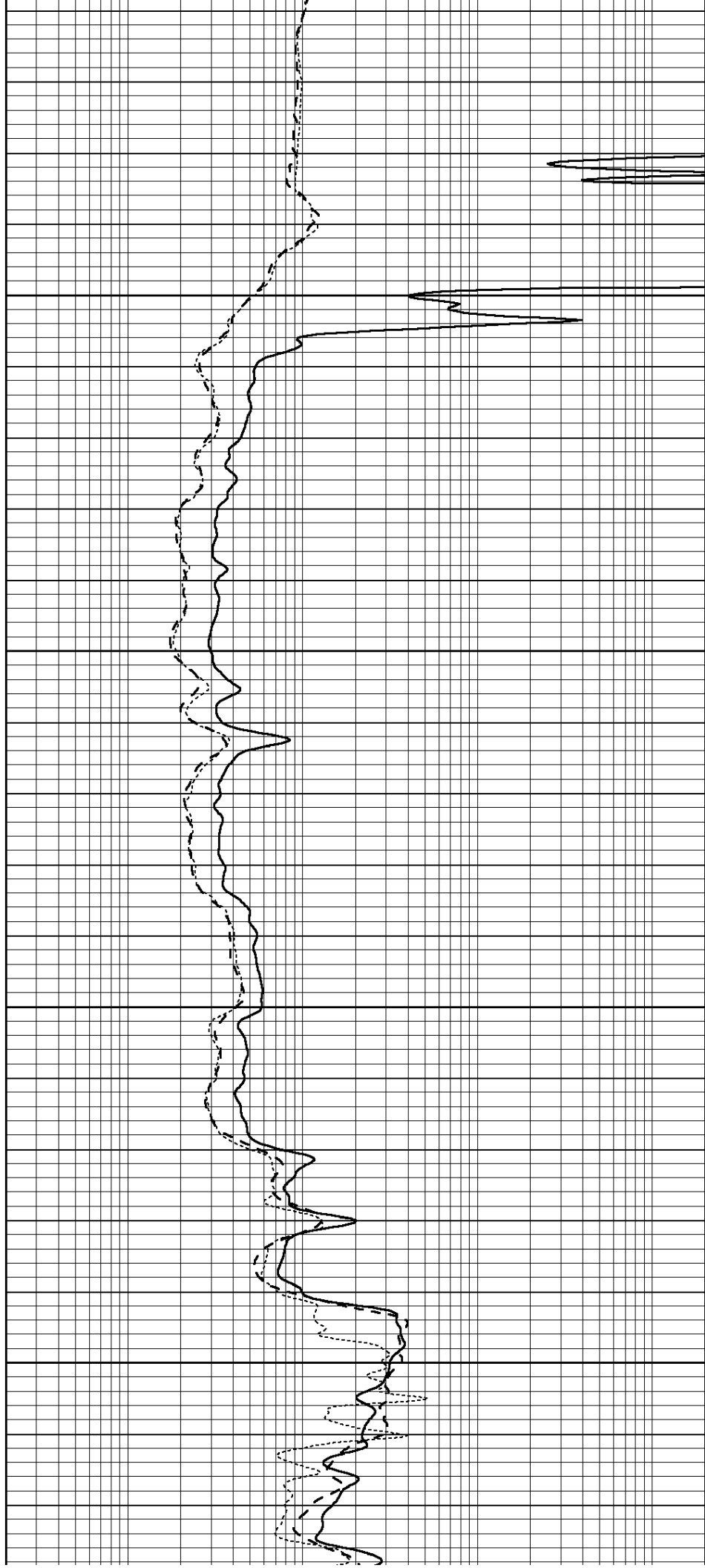


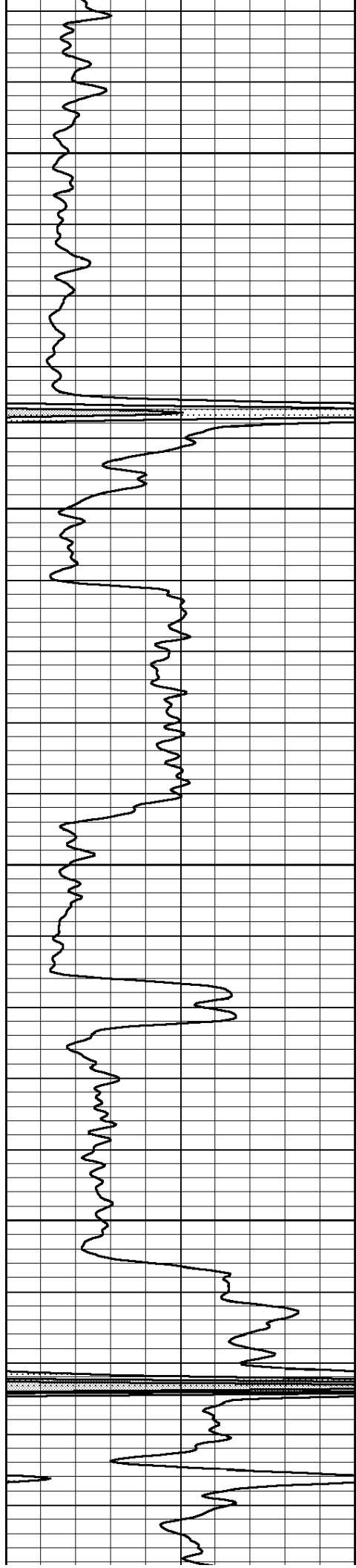
300

350

400

450



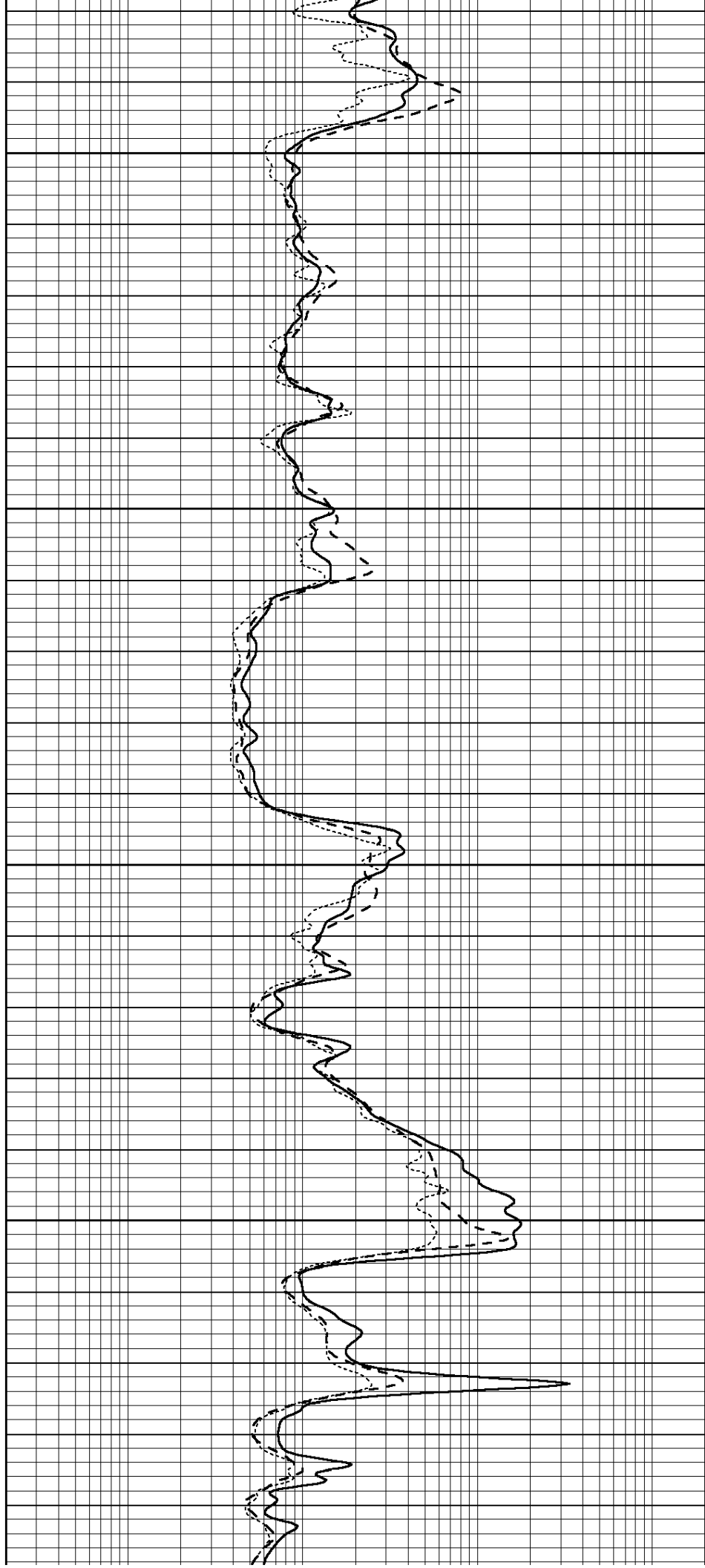


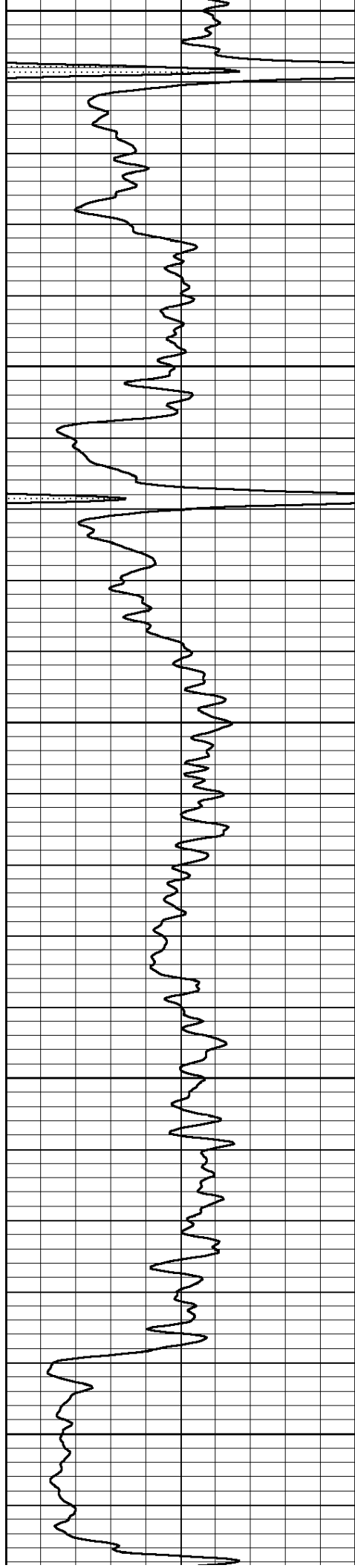
500

550

600

650





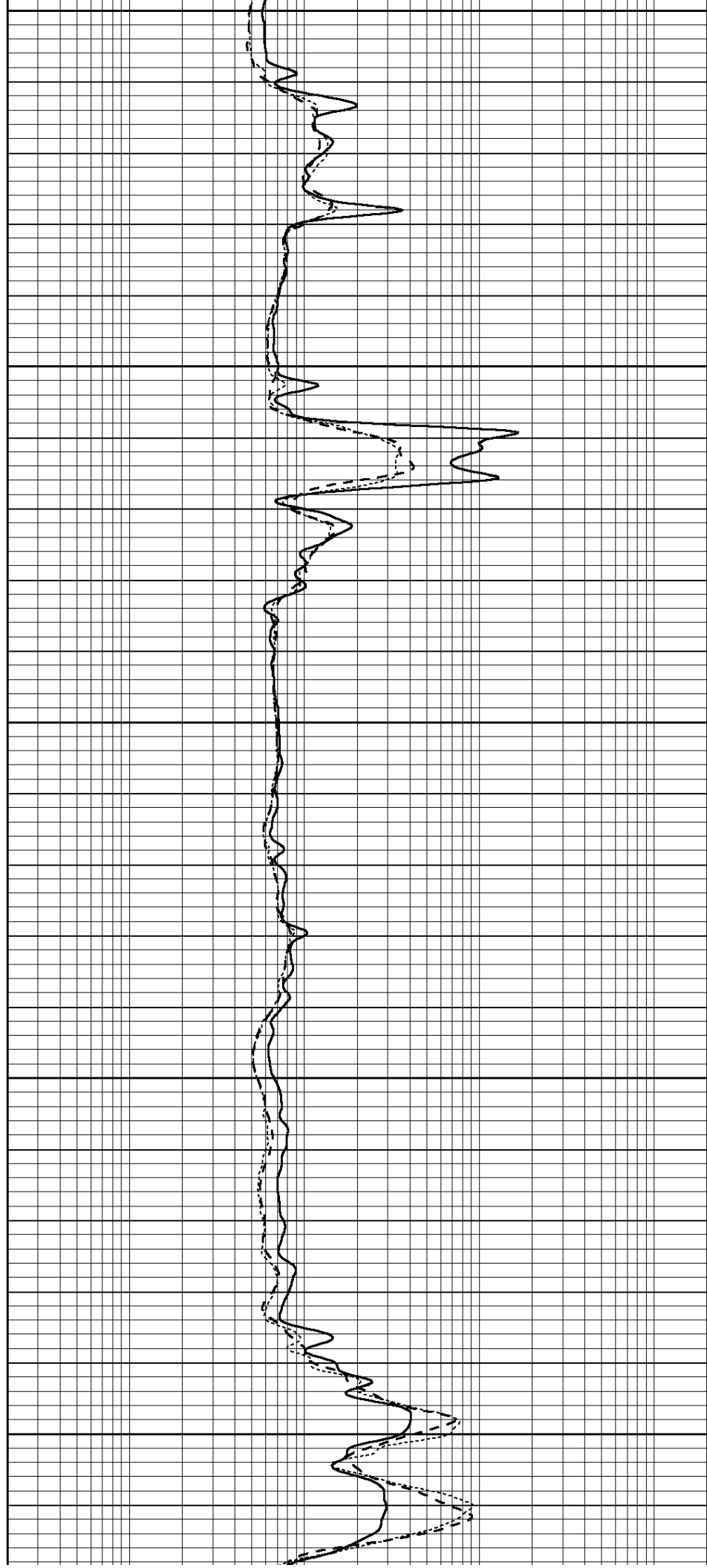
700

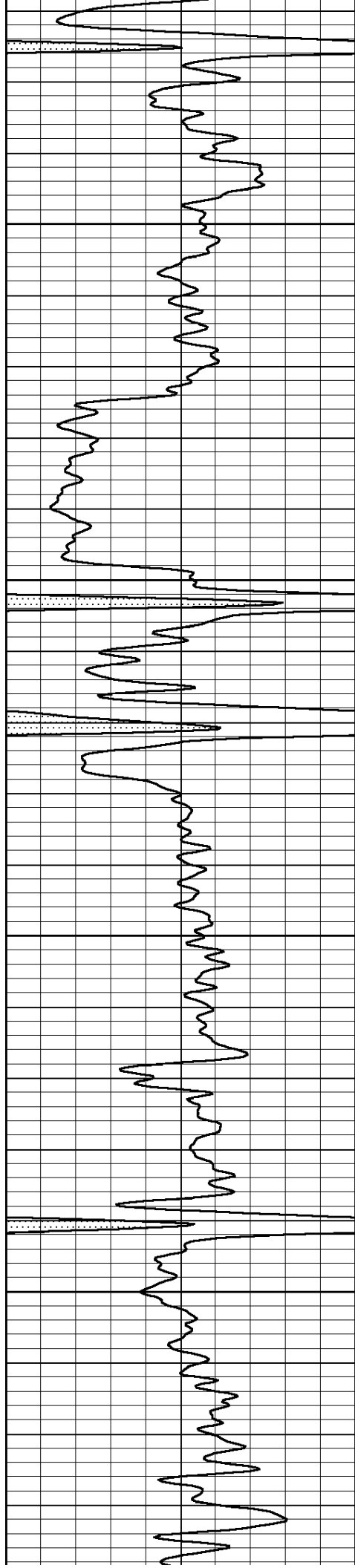
750

800

850

900



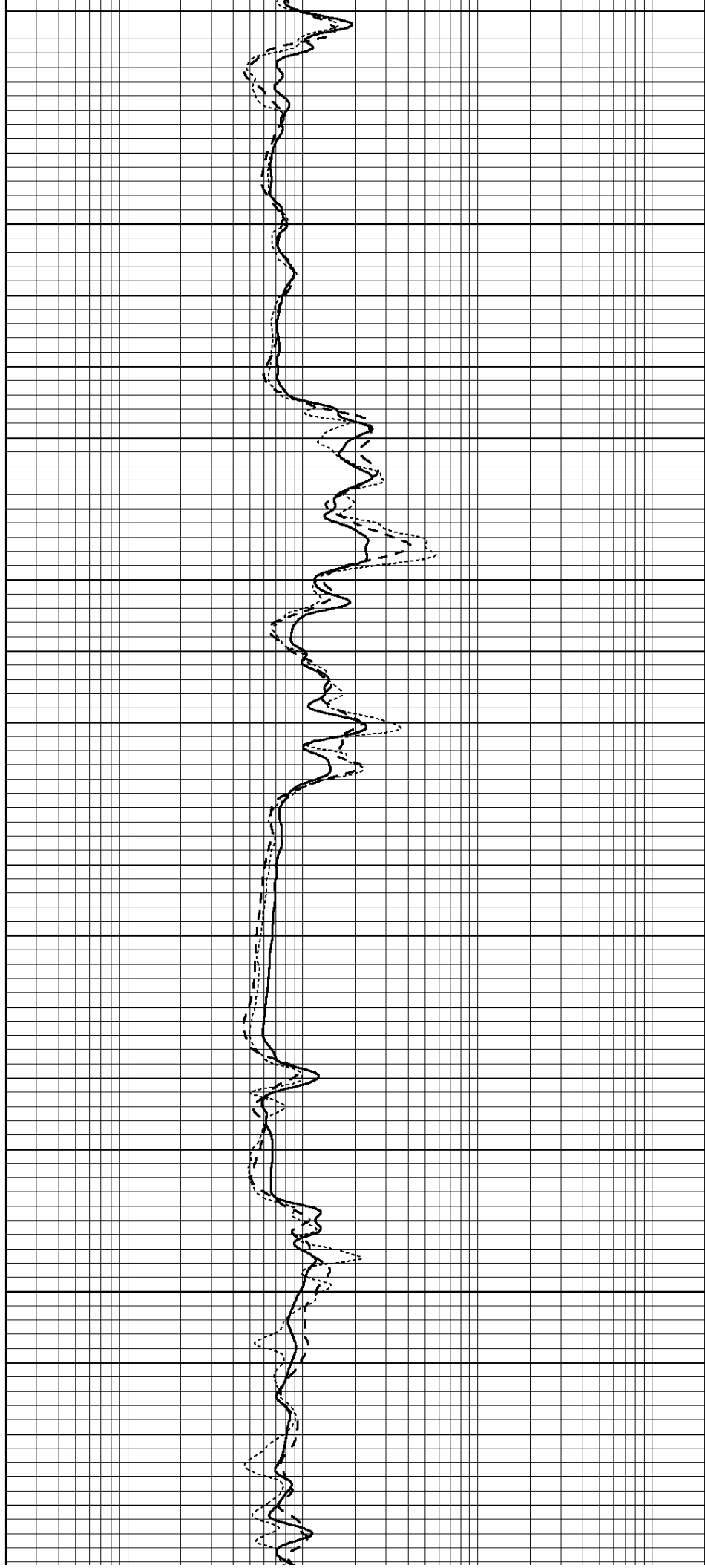


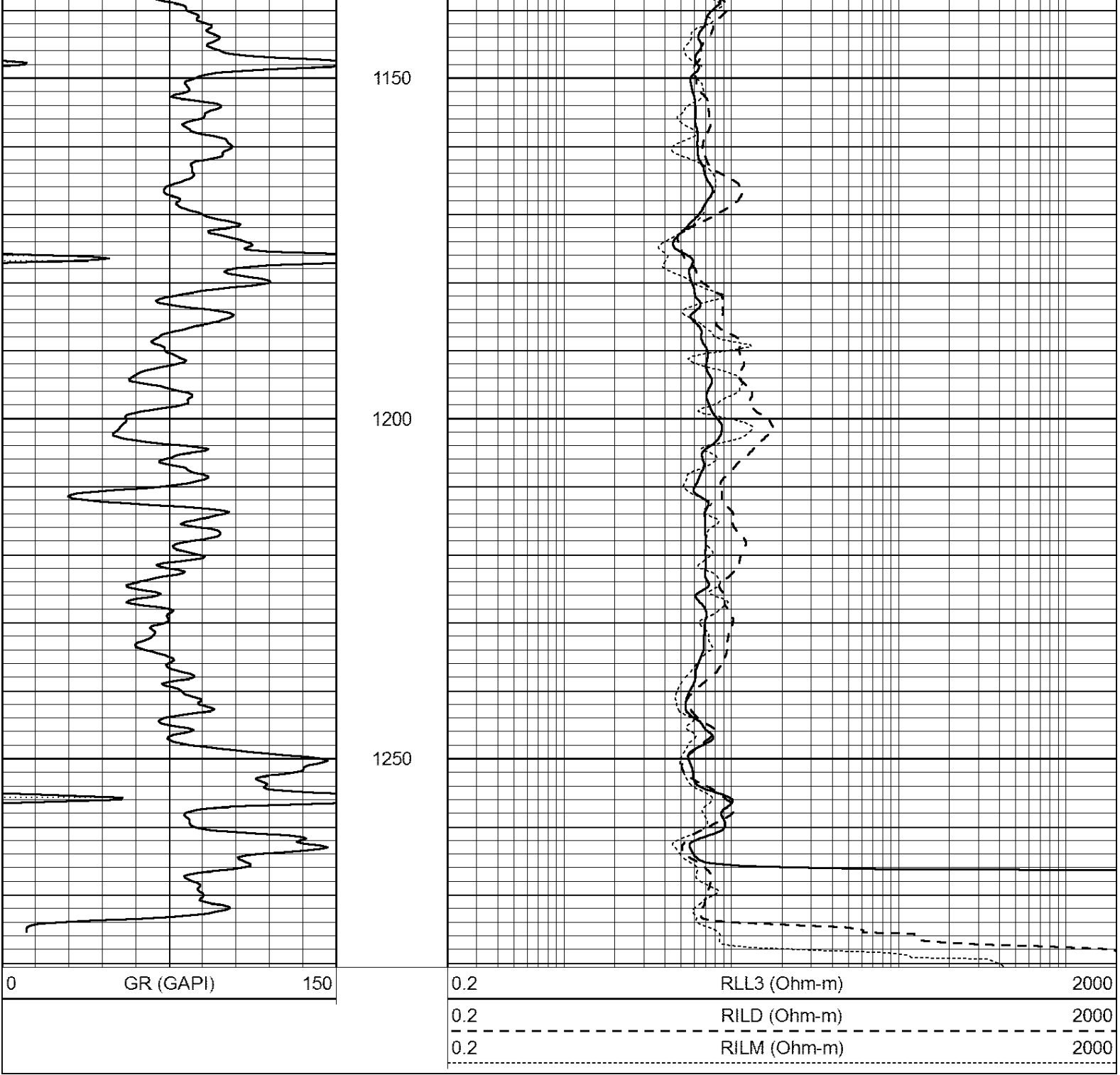
950

1000

1050

1100





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CLL3	14.83					

	CILD	6.48				
	CILM	2.83				
	SP	0.83				
Dataset: ow1-7767 layne energy.db: field/well/DIL/pass2.1 Total Length: 17.67 ft Total Weight: 210.00 lb O.D.: 3.50 in						